GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Fisheries Department – Annual Plan 2017-18 – Operational guidelines for implementation of the schemes - Approval – Orders – Issued.

ANIMAL HUSBANDRY, DAIRY DEVELOPMENT & FISHERIES (FISH) DEPARTMENT

G.O.RT.No. 206 **Dated: 13-07-2017**
Read:-

From the Commissioner of Fisheries, Andhra Pradesh, Poranki , Vijayawada
Lr. No. 4898/B/2016 , Date: 11-4-2017 & 11-7-2017.

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ORDER:

In the reference read above, the Commissioner of Fisheries, Andhra Pradesh, Poranki , Vijayawada has reported that the Budget Estimate for schemes proposed under State Development Schemes is Rs. 21061.00 lakhs for the year 2017-18 under Fisheries Sector and scheme wise, district wise budget distribution have been done in accordance with the annual work plan, programme priorities, fund requirement etc., for implementation of schemes during the year 2017-18.

2. The Commissioner of Fisheries, has prepared the operational guidelines for the following schemes in consultation with the District Fisheries, other stake holders etc, and requested the Government to approve the same for enabling to communicate to the District Fisheries officers to implement the schemes as per the targets given to them .

Sl No.	Name of the Scheme
1	Relief to marine fishermen during the ban period
2	Supply of Fiber boats to marine fishermen
3	Supply of boats to Inland fishermen
4	Supply of nets to traditional and motorized marine fishermen
5	Supply of nets and cycles/nets to Inland fishermen
6	Promotion of Deep Sea Fishing
7	Aqua labs
8	Mechanization of Aquaculture

3. After careful examination of the matter, Government hereby approve the operational guidelines of the scheme at Sl. No.1 and the operational guidelines regarding the schemes at S.No.2 to 8 with the following modifications/ provisions pertaining to mode of procurement of materials for grounding the schemes with a view to procure the quality materials at competitive prices and for speedy implementation of schemes in all Districts:

> "Instead of procuring the required material through District Purchase committee (DPC), the procurement shall be done at HoD level by calling tenders and empanelment of suppliers. The empanelled supplier's list to be communicated to all the Districts for implementation of the Schemes. For all other schemes also the HoD shall adopt the same procedure".

4. The operational guidelines of the above said schemes are appended to this order.

5. The Commissioner of Fisheries, Andhra Pradesh, Poranki , Vijayawada shall take necessary action in the matter, accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

DR.MANMOHAN SINGH
SPECIAL CHIEF SECRETARY TO GOVERNMENT

To
The Commissioner of Fisheries, Andhra Pradesh, Poranki, Vijayawada .
The District Fisheries Officers through Commissioner of Fisheries, Andhra Pradesh, Poranki, Vijayawada
Copy to:
The OSD to M (Agri, AH,DD & F).
The P.S to Special Chief Secretary to Government, AH, DD & F Dept.
SF/SC

//Forwarded by Order//

SECTION OFFICER

Annexure

(Annexed to GO Rt. No.206,Date:13.7.2017 of AH, DD and Fisheries Department)

1 Operational Guidelines for disbursement of relief assistance to the marine fishers during the marine fishing ban period

I. Introduction:

The Govt. of India imposed uniform ban on fishing by all fishing vessels in Indian Exclusive Economic Zone beyond territorial waters from April 15th to June 14th 2017 (61 days) on east coast for conservation and effective management of fishery resources for sea safety reasons during the year 2017 duly exempting traditional non motorized boats. Accordingly the Government of AP in pursuance of Govt. of India orders, it is proposed to impose ban period on marine fishing by all motorized and mechanized fishing vessels exempting the traditional non-motorized fishing craft in the territorial waters of AP Coast.

II. Objective:

- To Provide relief to affected fishermen families of both motorized and mechanized boat crew members during the ban period on marine fishing for 61 days as they lose their livelihoods during the ban period.
- To sustain the marine fishery resources by observing the ban period on marine fishing and to allow the brood stock to breed during breeding season there by promote recruitment to fish population.

III. Eligibility :

- The Scheme is applicable only for crew members of registered mechanized and motorized crafts under APMFR Act, 1995/ M.S. Act 1958.
- For motorized craft, maximum of 6 crew members (including boat owner) and for mechanized boats, maximum of 8 crew members (Excluding Boat owner) are eligible to get relief during the ban period on marine fishing.

IV. Pattern of Assistance:

- Each affected family shall be assisted with relief of Rs. 4000/- through Direct Benefit Transfer.

V. Mode of implementation:

- The boats should be registered with the Dept. of Fisheries under APMFR Act/ M.S. Act., and possess valid license certificate.
- The beneficiaries should invariably open bank account on his name and submit the details to the concerned Fisheries Development Officer/ Asst. Inspector of Fisheries along with Xerox copy of Aadhar Card/Ration Card, first page of Bank account pass book and mobile number to get the relief.
- The boat owners of the mechanized and motorized crafts have to certify their crew members in the prescribed format and furnish the list to the Fisheries Development Officer/Asst. Inspector of Fisheries concerned
- Fisheries Development Officer/Assistant Inspector of Fisheries, shall obtain applications from the crew members in the prescribed format along with a copy of Registration certificate & license of the boat, Aadhar card/Ration card, first page of Bank account pass book and Biometric Identity card issued by the Dept. of Fisheries and mobile number.
- The Fisheries Development Officer/ Asst. Inspector of Fisheries concerned will scrutinize the list of applications as per the eligibility and finally recommends the list of eligible crew members to the District Fisheries Officer for sanction of relief during the ban period with certification of genuineness of the beneficiaries

- The District Fisheries Officer shall collect the list of mandal level eligible crew members from all the subordinate officers, scrutinize the list with the help of Asst. Director of Fisheries/Fisheries Development Officer/Asst. Inspector of Fisheries concerned and prepare final list of the district and get the approval of the District Collector.
- The District Fisheries Officer after getting the approval of the District Collector will recommends to the Commissioner of Fisheries, AP., Hyderabad for sanction of relief to eligible crew members during the ban period.
- The Commissioner of Fisheries basing on the proposals received from the District Officers of 9 coastal Districts, will arrive final demand at State level for granting relief to eligible crew members @ Rs.4000/- fishermen family and release the budget as per the budget provision and issue sanction orders accordingly.
- The Accounts Officer at Head Office will get budget authorization from the Director of Treasuries and Accounts.
- Basing on the authorization of Director of Treasuries and Accounts, the District Fisheries Officers will submit the bills to the treasuries along with details of eligible fishermen, bank account details and request the treasury officer to adjust the amount to the concerned banks, who in turn disburse the relief amount by online transfer to the bank accounts of the beneficiary individuals.
- The District Fisheries Officer should ensure the transfer of the relief to the concerned beneficiaries' accounts and obtain the statements from the concerned banks and record in their files. DFO should also maintain the Register of accounts under the scheme for verification by the higher authorities and produce the same to Audit authorities.
- The DFOs should send Utilization Certificate to the office of Commissioner of Fisheries, A.P., Vijayawada immediately after disbursement of the relief assistance.

DR.MANMOHAN SINGH
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2. Operational guidelines for supply of fibre boats to marine fishermen

I . Introduction:

In Andhra Pradesh, there are about 1.60 lakh seagoing fishermen and 34,000 fishing vessels. Only 1/5th of the marine fishermen have their own fishing craft. Most of the coastal fishers cannot afford to have their own fishing craft mainly due to their poverty. This proposal is in order to help these poor fishers to have a fishing craft, engine and nets of their own.

II. Objectives:

- To provide livelihood to poor marine fishermen by giving an opportunity to acquire their own boats, engines and nets.
- To increase marine fish production by replacing the old and outdated craft.

III. Unit Cost and Pattern of Assistance:

- The maximum unit cost is Rs.5.00 lakhs which includes FRP craft, Nets and Engine (IBM or OBM).
- The subsidy will be 50% on the unit cost or actual cost whichever is less with maximum ceiling of Rs. 2.50 lakhs per unit.
- The beneficiary contribution shall be either bank loan or by self finance/beneficiaries themselves.
- Applications can be made singly or by a group of up to 6 beneficiaries per boat.

IV. Eligibility Criteria:

- The beneficiary/beneficiaries should not be a defaulter(s) of a bank loan and accordingly certificate to be produced from service area bank.
- The beneficiary/beneficiaries should belongs to BPL category.
- The beneficiary/beneficiaries should not get any subsidy facilities through Department/Govt. agencies earlier. Accordingly the concerned AIF/FDO & DFO has to certify.

V. Mode of Implementation:

- The beneficiaries identified have to be approved by the District Collector through concerned DFO.
- In case of Bank Loan, the beneficiary(s) should submit the Bank Consent letter for the loan portion
- In case of self finance, the beneficiary(s) should submit willingness to contribute their portion over and above subsidy component.
- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice
- The empanelled suppliers have to display the material on the date and venue as fixed by the DFO for verification of the quality of material by the beneficiaries and to exercise option for selection of material/firm and suppliers by the beneficiaries
- Accordingly the DFO has to get the declarations from the beneficiaries with their option for various components, issue sanction orders to the beneficiaries and collect the beneficiary contribution through DD in favour of DFO. On receipt of Beneficiary contribution, the DFO has to arrange for drawl of subsidy portion from District Treasury for payment to the Suppliers concerned.

- In case of bank finance, DFO should get the bank sanction order for release of loan component and arrange to release the subsidy component to bank account of the concerned beneficiary and ground the scheme through Bank.
- The units should be disbursed to the beneficiaries in presence of local MLA/Public representative/ Collector/ RDO in a public meeting and necessary certificates of distribution are to be obtained and photos should be taken for record.
- The DFOs shall submit progress report with Financial and Physical achievement against targets given by the Head Office by 5th of every succeeding month.
- The District Fisheries Officers should maintain all registers such as stock register, assets distribution register, invoice copies etc., with photographical evidences of distribution for the units supplied and should be produced at the time of inspection by the superior officers on their visit to the office.
- Proper accounts of the expenditure incurred should be maintained by DFOs and timely reports should be furnished to head office as the accounts regarding release of funds and their utilization under this scheme shall be open to inspection by the sanctioning authority and for audit purpose.
- U.C. along with physical and financial progress/achievement should be furnished to the Head Office immediately after grounding the units.

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3. Operational Guidelines for Supply of Boats to Inland Fishers

I. Introduction:

The fishermen who make fishing operations in large water bodies, Rivers and reservoirs eke out their livelihood from fishing. They use traditional craft like coracles, putties, arige, fibre boats etc. for going into the water body to operate their nets and carry the fish to the landing centre. The fish catch is most often get spoiled by the time they reach the landing center and thereby fishermen realizing poor prices to the fish and affecting their livelihood very badly. Therefore in order to facilitate to bring the catch quickly to landing site and also to carry ice. From time to time there is need to replace their crafts.

II. Objectives:

The objective is to provide boats to inland fishers of large water bodies, rivers, reservoirs to support their livelihood.

III. Unit Cost and Pattern of Assistance:

The unit cost is up to of Rs 0.50 lakhs. The subsidy will be 75% on unit cost or actual cost whichever is less with a maximum ceiling of Rs.37500/- . The balance of the unit cost can be met by bank loan or by beneficiary contribution. Applications can be made singly or by groups of up to 2-3 beneficiaries per craft or in the name of local Fishermen Cooperative Society.

IV. Eligibility Criteria:

- The beneficiary shall be an active member of the FCS / possess license to make fishing operation in the rivers, reservoirs / functional FCS .
- Preference shall be given to those beneficiaries whose requirement of unit cost is on lower side so as to cover more number of beneficiaries.

V. Mode of Implementation:

- The FDO/ AIF should identify the beneficiaries and collect the applications after screening by the Mandal committee along with necessary enclosures and recommends to DFO .
- The DFO shall verify the details of the applications and get the approval of the Dist. Collector.
- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice
- The beneficiaries should produce the assets procured under the scheme on demand by the
- Department Officers or any authorized person.
- The DFO should submit monthly progress report. He should also submit U.C within one month of grounding the scheme.

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4. Operational guidelines for supply of nets to traditional and motorized marine fishermen

1. Introduction:

AP state is endowed with rich inland water resources and long coast line of 974 kms with continental shelf area of 33,227 sq kms. There are 555 fishermen villages, 350 fish landing centre and 1.60 lakh active coastal fishermen in 9 coastal districts of Andhra Pradesh. About 16,000 traditional craft and 16,897 motorized are in operation in the state. All these fishers operate different types of nets basing on the type of fishing and fishing season. The traditional and motorized coastal fishermen are facing hard ship when their nets get damaged while fishing as most of the catch escapes from the damaged nets. Repairs to these damaged nets are physically laborious process and consumes more time and moreover such repaired nets will not last for a longer period. Hence, it is proposed to support the traditional and motorized marine fishermen by providing financial assistance to procure different types of nets in place of their old and damaged nets.

II. Objectives:

- To support the traditional and motorized fishers sector for replacement of their old and damaged nets.
- To promote coastal fishers to catch more fish through sustainable fishing practices
- To promote the fishermen to have their own nets for different fishing operations and earn more income for their livelihood.
- To promote sustainable fishing practices by supplying larger mesh sized nets for targeted fishing.

III. Unit cost and Pattern of Assistance:

1. The unit cost is up to Rs. 50,000/-
2. Subsidy will be 75% of the unit cost or actual cost whichever is less not exceeding Rs.37,500/- per unit. The balance of 25% shall be either bank loan or beneficiary contribution.

IV. Eligibility Criteria

- The beneficiary should be active Marine traditional fishermen
- The fishing craft should be registered under APMFR act 1995 / MS act 1958 and possess valid license.
- The fishermen should belong to BPL category
- The fishermen who availed the subsidy under the same scheme are not eligible to get subsidy for second time.

V. Mode of Implementation

- The concerned FDO/AIF will identify the eligible beneficiaries for supply nets and collect the applications along with documents of boat registration certificate, valid license certificate, Aadhar card, ration card, Photograph of the beneficiary and mobile number, Bank consent letter or beneficiary declaration for self finance.

- FDO/AIF after scrutinizing the genuineness of the beneficiaries, will submit the final list of beneficiaries as per his target to concerned District Fisheries Officer

- The DFO will scrutinize the beneficiaries' lists of all FDOs/AIFs in the district basing on the eligibility criteria and obtain approval of the District Collector.

- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate

Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice

- The empanelled suppliers have to display the material on the date and venue as fixed by the DFO for verification of the quality of material by the beneficiaries and to exercise option for selection of material by the beneficiaries of their choice

- Accordingly the DFO has to get the declarations from the beneficiaries with their option of net material/ supplier and issue sanction orders to the beneficiaries, collect the beneficiary contribution through DD in favour of DFO. On receipt of Beneficiary contribution, the DFO has to arrange for drawl of subsidy portion from District Treasury for payment to Suppliers concerned

- In case of bank finance, DFO should get the bank sanction order for release of loan component and arrange to release the subsidy component to bank account of the concerned beneficiary and ground the scheme through Bank.

- The DFO should place the indent to suppliers as per the Beneficiary choice and supply the units in the presence of public representatives and District Administration and get the acknowledgements from the beneficiaries for office record purpose.

- The DFO should maintain the book of records along with photographs/ videos of distribution for producing for verification by the higher authorities and Audit team.

- The beneficiaries should produce the assets procured under the scheme on demand by the Department Officers or any authorized person.

- The District Fisheries Officers shall submit Utilization certificates in full shape to Head Office immediately after grounding the units.

- If the District Fisheries are felt that the allotted units are in excess of their requirement, they should immediately inform the head office for reallocation of units to needy districts.

DR.MANMOHAN SINGH
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5 . Operational guidelines for supply of nets and cycles /nets to inland fishermen

Introduction:

AP state is endowed with rich inland water resources which are supporting the traditional fishers. In inland sector, numerous fishing crafts like dhonies, dugout canoes, coracles, FRP catamarans and thermocol teppas are in operation. Traditional fishers operate diffexdrent types of nets basing on the type of fishing, seasonality and nature of water resources. These traditional fishermen are facing hard ship when their nets get damaged while fishing since most of the catch escapes from the damaged nets. Repairs to these damaged nets are physically laborious process and consumes more time and moreover such repaired nets will not last for a longer period. Hence, it is proposed to support the traditional fishermen by providing financial assistance to procure nets in place of old and damaged nets

II. Objectives:

- To support the traditional fishers of inland fisheries sector for replacement of their old and damaged nets.
- To promote traditional fishers to catch more fish through sustainable fishing practices.
- To promote the fishermen to have their own nets for different fishing operations and earn more income for their livelihood.
- To promote sustainable fishing practices by supplying larger mesh sized nets for targeted fishing.

III. Unit cost and Pattern of Assistance:

- The unit cost is Rs.12,000/-. The subsidy will be 75% of the unit cost or actual cost whichever is less with a maximum ceiling of Rs.9000/-. The balance of 25% shall be by bank loan or beneficiary contribution.

IV. Eligibility Criteria

- The beneficiary should be active Active inland fishermen.
- The beneficiary should be a license holder or possess a traditional fishing craft and the concerned FDO has to certify accordingly.
- The Inland Fishermen Coop. Societies or a group of Inland fishermen are also eligible to get benefit under this scheme for drag/dip/gill nets (One unit for one Society or Group only) duly certified by the concerned Fisheries Development Officer/Asst. Inspector of Fisheries.
- Priority to be given to those beneficiaries whose requirement of unit cost is on lower side so as to cover more number of beneficiaries.

V. Mode of Implementation

- The concerned FDO/AIF will identify the eligible beneficiaries for supply nets and collect the applications along with documents of Boat possession certificate, Copies of license holder certificate or certificate issued by FDO/AIF regarding genuineness, ration card/Aadhaar card, Photograph of the beneficiary.
- FDO/AIF will submit the final list after scrutinizing the genuineness of the beneficiaries to concerned District Fisheries Officer.

- The DFO will scrutinize the beneficiaries' lists of all FDOs/AIFs in the district basing on the eligibility criteria and obtain approval of the District Collector.

- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice

- The empanelled suppliers have to display the material on the date and venue as fixed by the DFO for verification of the quality of material by the beneficiaries and to exercise option for selection of material by the beneficiaries of their choice

- Accordingly the DFO has to get the declarations from the beneficiaries and issue sanction orders to the beneficiaries and collect the beneficiary contribution through DD in favour of DFO. On receipt of Beneficiary contribution, the DFO has to arrange for drawl of subsidy portion from District Treasury for payment to Suppliers concerned

- In case of bank finance, DFO should get the bank sanction order for release of loan component and arrange to release the subsidy component to bank account of the concerned beneficiary and ground the scheme through Bank.

- The DFO should place the indent to suppliers as per the Beneficiary choice and supply the units in the presence of public representatives and District Administration and get the acknowledgements from the beneficiaries for office record purpose.

- The DFO should maintain the book of records along with photographs/ videos of distribution for producing for verification by the higher authorities and Audit team.

- The District Fisheries Officers shall submit Utilization certificates in full shape to Head Office within one month from the date of grounding the units.
- If the District Fisheries are felt that the allotted units are in excess of their requirement, they should immediately inform the head office for reallocation of units to needy districts.

DR.MANMOHAN SINGH
SPECIAL CHIEF SECRETARY TO GOVERNMENT

6. Operational guidelines for promotion of deep sea fishing

I. Introduction:

The fishery resources from inshore waters are over exploited whereas the resources from the deep sea are under exploited. Utilization of untapped fishery resources is an important means of augmenting the production in marine fisheries sector. Therefore there is every need to supply certain accessories for mechanized and motorized boats for promoting target specific gear like long-line and gill nets meant for Tuna fishing to tap un tapped potential deep sea fishery resources.

II. Objectives:

- To augment the fish production from marine fisheries sector by tapping potential fishery resources from deep sea waters
- To reduce the fishing pressure in inshore waters
- To promote target specific species fishing and to reduce the by-catch in marine fisheries sector
- To increase the income levels of the motorized and mechanized fishing community
- To promote domestic and export marketing of Tuna fishery

III. Unit Cost and Pattern of Assistance:

A) For Mechanized Boats

i.	Components : Hook and Line, Sleeves, Floats & Sinkers, Anchor, signal light, marking buoy, Multipurpose winch, etc., or Long mesh sized gill nets meant of Tuna fishing
ii.	Unit Cost : Maximum Rs.4.00 lakhs (Only material cost)
iii.	Subsidy : 50% on unit cost or actual cost whichever is less with maximum ceiling of Rs.2.00 lakhs.
iv. Beneficiary contribution :	Bank loan/Individual own finance

B) For Motorized Boats

i.	Components: Hook and Line, Sleeves, Floats & Sinkers, Anchor, signal light, marking buoy, etc., or Long Mesh sized gill nets meant for Tuna Fishing
ii.	Unit Cost : Maximum Rs. 1.00 lakhs (Material Cost)
iii.	Subsidy : 50% of the unit cost or actual cost whichever is less with maximum ceiling of Rs.2.00 lakhs.
iv. Beneficiary contribution:	Bank loan/ Individual own finance

IV. Eligibility Criteria:

- Mechanized or Motorized Boat should be registered under APMFR/ MS Act and possess valid license
- The boats which violates the acts are not eligible
- The boats which are benefitted with same equipment earlier under any Govt. schemes are not eligible

V. Documents to be enclosed:

- Prescribed application along with photograph of the boat's owner

- Copies of Boat registration certificate, license, Aadhar Card/Ration Card and Biometric Card (if possess) and mobile number
- Bank consent letter in case of Bank finance/Individual declaration for self finance.
- Beneficiary declaration regarding requirement of various components with quantity and financial estimate

VI. **Mode of Implementation:**

- The FDO/AIF should identify the beneficiaries and collect the applications along with necessary enclosures and recommends to DFO through Divisional Fishery Officer
- The beneficiaries who have already availed the benefit for nets under any Govt. scheme earlier are not eligible under this scheme.
- The DFO / Divisional Officer should cross check the applications and get the approval of the District Collector.
- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice
- The empanelled suppliers have to display the material on the date and venue as fixed by the DFO for verification of the quality of material by the beneficiaries and to exercise option for selection of material/ suppliers as per their choice
- Accordingly the DFO has to get the declarations from the beneficiaries and issue sanction orders to the beneficiaries, collect the beneficiary contribution through DD in favour of DFO. On receipt of Beneficiary contribution, the DFO has to arrange for drawl of subsidy portion from the Treasury for payment to Suppliers concerned
- In case of bank finance, DFO should get the bank sanction order for release of loan component and arrange to release the subsidy component to bank account of the concerned beneficiary and ground the scheme through Bank.
- The DFO should place the indent to suppliers as per the Beneficiary choice and supply the material in the presence of public representatives and District Administration and get the acknowledgements from the beneficiaries for office record purpose.
- The DFO should maintain the book of records along with photographs/videos of distribution for producing before the higher authorities and Audit team for verification.
- The beneficiaries should produce the assets procured under the scheme on demand by the Department Officers or any authorized person.
- The DFO should submit monthly progress report. He should also submit U.C immediately after grounding the units.

DR.MANMOHAN SINGH
SPECIAL CHIEF SECRETARY TO GOVERNMENT

7. Operational guidelines for assistance for establishment of Aqua Labs by Department of Fisheries

A) Introduction:

Andhra Pradesh, the Aqua hub of India ranks first in fish and shrimp/ prawn production and also by value of fish/ prawn in the country. The production for the year 2015-16 is 23.52 lakh tones and GVA of 30,099 crores with a growth rate of 33.21% and the year 2016-17 is 27.66 lakh tones and GVA of Rs crores with a growth rate of 17.60 % on Production and 26.95 % on GVA . Aquaculture is one of the fastest growing food production industries in Andhra Pradesh and the annual loss due to lack of management practices, the farmers are incurring huge losses. There is necessity to establish aqua labs which will help the farmers to know the physio-chemical parameters and disease outbreaks if any. This will guide the farmers to adopt best management practices and can prevent or mitigate the loss of the crops. Therefore, promoting responsible and sustainable aquaculture in the state is of prime importance for providing food security and economic growth through monitoring & control of Management Practices by establishing Aqua labs.

B) Objectives:

- To mitigate the losses in aquaculture by extending technical services to the Aqua Farmers.
- For the sustainability and to decrease disease outbreak in Aquaculture
- To make the farmers adopt best management practices in Aquaculture.

C) Pattern of Assistance :

100% grant to Govt. Institutions. The components permissible under the scheme include, New equipment / items , repairs to the existing Equipment for analysis & Diagnosis , new construction of stationery Aqua Labs , repair works / renovation of existing Aqua labs and Mobile Aqua labs :

i) Indicative list of Components eligible for Assistance Under Equipment /Items :
ii)

Sl. No.	Parameters/Examinations observed at aqua lab	Equipment needed
1	**1. Physio - Chemical Parameters of Water And Soil:** **WATER:** Temperature, pH, Dissolved Oxygen, Ammonia, Nitrite, Phosphorus, Alkalinity, Hardness, Salinity, Micro Nutrient Levels ,BOD etc.,) **SOIL:** pH, EC, Available Phosphorus, Available Nitrogen , Organic Carbon , Calcium, Potassium etc.,)	Thermometer, pH meter, pH pen, Digital DO meter, Refractometer, BOD Incubator, Chemicals, Glassware Water test kits, Spectrophotometer/Photometer, BOD Incubator etc., Soil pH Cone, EC Meter, Flame photometer, Digestion & Nitrogen Extractor, soil test kits Glassware & Chemicals etc.,
	2. Microbiological Examination : **Biological Examination of sample: Isolation and Identification of**	Laminar flow, Autoclave, bacteria counting chamber, Binocular/ Trinocular microscope with Lamp and Photography facility, Portable CTV , Media

	Microbes **Microscopic Examination of Tissues** Any disease outbreak, etiology, pathological observations etc.,	necessary for bacterial isolation & identification , Sensitive Balance , Glassware and chemicals, Computer, Printer & Net work, stationery, table etc.,

- If the site is available with the Department, the estimates generated for construction of New Aqua labs with all amenities by the Executing Agency , as approved by the District Collector), shall be submitted along with justification to the Commissioner of Fisheries ,AP, for approval.
- If repairs /renovations are required for already existing Aqua Labs, estimates generated for with all amenities by the Executing Agency , as approved by the District Collector) , shall be submitted along with justification to the Commissioner of Fisheries ,AP, for approval.
- Mobile Aqua labs shall also be introduced in potential Districts to cater to the needs of the Aqua farmers .

D) Eligibility criteria:

- The beneficiary can be from Govt. institutions only .
- The beneficiary should have own building / Site for construction of new Building for establishing Aqua lab.
- The Aqua labs will be operated by the department of Fisheries and shall collect Users Charges as per the Government Norms.

E) Documents to be submitted:

- The District Fisheries Officer shall submit the proposal covering that how many aqua farmers will be benefitted and how much area will be covered and any aqua labs nearby along with documents, such as, location of site, area, accessibility to aqua farming area and production etc., for construction/ renovation aqua lab/introduction of Mobile Aqua Lab.
- The DFO should submit the required equipment for positioning in the Aqua Lab based on the requirement. The price of the equipment either be finalized by Head Office or by Three Men Committee at District Level.

F) Terms and Conditions:

- The aqua labs shall run by the Department of Fisheries.
- The lab should analyze the above mentioned physio-chemical parameters and biological observations from the ponds of aqua farmers to diagnose the problems/ diseases if any.
- In addition to the above equipment, new equipment for analysis of feed ,diagnosis of diseases and Antibiotic Residue Screening etc., shall be proposed based on the requirement.
- Under Surveillance & Monitoring Programme on the aqua culture, the aqua lab should be registered by the department of fisheries as per the G.O. RT. No. 49, dt. 20.09.2016, Animal, Husbandry, Dairy Development and Fisheries (Fish) Department .
- The user charges for the tests shall be collected at the rates as per the Govt. norms
- The aqua lab should run with the technical person with essential qualification and minimum experience .

G) Mode of implementation:

- The DFO shall identify the accessible site/ location where the aquaculture is profoundly abundant
- A three member Committee constituting Principal, SIFT, Kakinada , DFO of the concerned district and the representative of MPEDA / NaCSA/ RGCA shall scrutinize the requirement of equipment and recommends to the Commissioner of Fisheries for approval
- The DFO of the concerned District will issue sanction orders to the empanelled suppliers/ supplier , approved by the Head Office for supply of required equipment
- The Aqua Lab in-charge is responsible to get the aqua lab/mobile lab registered and submit daily progress report of the Units and services extended to the farmers to the DFOs and DFOs have to sent it to the Commissioner of Fisheries, A.P., Vijayawada through the App developed by Commissioner of Fisheries for monitoring of their labs.

DR.MANMOHAN SINGH
SPECIAL CHIEF SECRETARY TOGOVERNMENT

8. Operational Guidelines for Mechanization of Aquaculture

As a part of sustainable Aquaculture practices, it is proposed to supply air blowers' aerators, feed dispensers, solar lights, solar pump sets solar generators, Surveillance Cameras and pond automation equipment to Aqua farming area in the state : shrimp farming area both in fresh and brackish water areas.

A) Introduction:

In Aqua culture Shrimp culture operations, the usage of diesel pumps/motors, aerators, lighting the farm are all became important activities to reap a good harvest from the ponds. Usage for aeration equipment is most commonly used in emergencies to keep fish alive and minimize stress associated with oxygen depletion (concentrations lower than 3 to 4 ppm). Through aeration, oxygen is replenished to save the shrimp& fish . Apart from use of aerators, aqua farmers are resorting to pump water through motors/pumps and investing a huge amount of money on power. In addition, the aqua farmers are to be so vigilant on the functioning of aerators, pumps, etc and also to have eye to prevent entry of poachers , particularly during night time. To tide over these issues , it is proposed to assist the farmers in taking up culture operations with the aid of solar powered diesel pump sets/ motors, aerators, lights , Surveillance Cameras, Pond Automation Devices , such as, Water Quality Monitoring Sensors, Auto Feed Dispensers, and other innovative interventions that will help them cut down the cost of production and to achieve sustainable Production & Productivity under Double Digit Growth in Andhra Pradesh.

B) Objectives:

- To augment the shrimp production in the ponds
- To reduce the financial burden of aqua farmers
- To save extra expenditure on power
- To increase the income levels by sustainable aquaculture

C) Unit Cost and Pattern of Assistance:

i) For Aerators :

1. Components : motor, Iron Rods, Fans, Paddle wheels etc
2. Unit Cost : Rs. 0.40 lakhs (2HP aerator) / each unit
3. Subsidy : 50% of the unit cost or Rs. 0.20 lakhs whichever is less of the actual cost; One beneficiary is eligible to avail subsidy up to maximum of 4 units

1. Beneficiary contribution: Bank loan/ Individual own finance

2. The maximum eligible subsidy per beneficiary is 0.80 lakhs for 4 Units .Supply of more than 4 aerators of 1 HP / 2 HP with 2 paddles or 4 paddles or as per beneficiary choice , limiting subsidy within the permissible limit of Rs.0.80 lakhs per beneficiary" is allowed.

ii) For Solar Aerators:

1. Components : Motor, Iron Rods, Fans, Paddle wheels, Solar Panels, Cables etc., ;

One Unit consisting of 4 HP Aerators with 16 Solar Panels each with 300 Watt Capacity; No. of Aerators 2 each with 2 HP (4 HP)
Provision for operation through Electrical Power ;

2. Unit Cost : Rs 2.50 lakhs
3. Subsidy : 50 % ; One beneficiary is eligible to avail subsidy for 2 Units (4 aerarotrs with total 8 HP)

4. Beneficiary contribution: Bank loan/ Individual own finance
5. The maximum eligible subsidy per beneficiary is 2.50 lakhs .Supply of more than 4 aerators of 2 HP with solar panels etc., or as per beneficiary choice , limiting subsidy within the maximum permissible limit of Rs.2.50 lakhs per beneficiary" is allowed.

iii) Solar Pump sets:

1. Components : 5HP solar pump Set for pumping of water
   a. Which includes Supply of either 5 HP mono block pump set with panels or submersible pump set with solar panels as per the choi the beneficiary Solar panels,
   b. batteries etc

2. Unit Cost : Maximum Rs. 5.00 lakhs (Material Cost)/ unit
3. Subsidy : 50% of the unit cost or Rs. 2.50 lakhs whichever is less; One unit for one farmer with minimum holding of 2 ha is allowed.

4. Beneficiary contribution: Bank loan/ Individual own finance

iv) For Solar Lights:

1. Components : 24 wts LED solar light (including required battery, solar panel,24wt LED light & 12ft GI pole) individual lights.
2. Unit Cost : Maximum Rs. 18000/-
3. Subsidy : 50% of the unit cost or Rs. 9000/- whichever is less of the actual cost; One beneficiary is eligible to avail subsidy up to maximum of 5 units (Max. subsidy :Rs 45,000/-)

4. Beneficiary contribution: Bank loan/ Individual own finance .

V) CCTV -Surveillance & Security System :

1 Components : Solar or Electrical Powered Surveillance & Security System with 1 (Pan Tilt zoom) Camera , Monitor Screen – 18.5" , NVR , 1/2/4 TB Cables, Poles etc., Electrical switches , Wifi router / 3g/4g dong ,

2. Unit Cost : Rs. 0.65-0.70 lakhs
3. Subsidy : Maximum 50% of the unit cost
   One Unit for 2 Hectares area. One beneficiary is eligible to avail subsidy up to maximum of 2 units

vi) Pond automation equipment:

a) Water Quality Monitoring Devise with Sensors :

1.Comoponents : Solar Operated Sensors to monitor the Water Quality parameters, such as, Temperature, pH, DO and/ or Ammonia . Solar Panels, Battery, Float etc to fix the Unit in the Aquaculture Pond ; Dissemination of data through Web , mobile online application and SMS alerts to Mobile Cell Phone

2.Unit Cost : Rs.0.40- 0.80 Lakhs or as approved by Head Office /Three Men Committee

3. Subsidy : 50% of unit cost with Max. subsidy of Rs 0.40 lakhs; One unit for each Hactare Pond ; Maximum permissible units are 2 per beneficiary with extent of 2 ha Farm area.

1. Beneficiary contribution: Bank loan/ Individual own finance

b) Solar Powered Auto Feed Dispensers :

1. Components : Solar Operated Auto Feed Dispenser to distribute feed in Aqua ponds monitor the Water Quality ; Solar Panels, Battery, Float etc to fix the Unit in the Aquaculture Pond ; Feed to be dispersed based on the pre-programmed time Frame; Capacity of the container 50-100 kgs

2.Unit Cost : Rs.0.50- 0.60 Lakhs or as approved by Head Office /Three Men Committee

3. Subsidy : 50% of unit cost with subsidy of Rs 0.30 lakhs per unit; One unit for each Hactare Pond ; Maximum permissible units are 2 per beneficiary with extent of 2 ha Farm area. Maximum subsidy eligible is Rs 0.60 lakhs

4. Beneficiary contribution: Bank loan/ Individual own finance

Eligibility Criteria:

- Aqua culture farm shall be registered with CAA or the State Govt as the case may be.
- Small and Marginal farmers who owns up to 2 ha farm area are eligible for subsidy. Preference shall be given to SC/ST –women beneficiaries also.

Documents to be enclosed:

- Prescribed application along with photograph of the aqua farmer
- Pond/Farm registration certificate, license copy, Aadhar Card copy , contact no. and
- the bank details
- Bank consent letter in case of Bank finance/ Individual declaration for self Finance.
- Beneficiary declaration regarding requirement of various components with quantity and financial estimate

Mode of Implementation:

- The FDO/ AIF should identify the eligible beneficiaries and collect the applications along with necessary enclosures and recommends to DFO

- The DFO should cross check the applications and place before the three Men Committee consisting of DFO, Representative from SIFT, Kakinada & Representative from MPEDA/NaCSA/RGCA for scrutiny then get the approval of the District Collector.

- The Commissioner of Fisheries call for tender at state level to procure the different components and empanel the list of suppliers with unit cost of different material on Rate Contract Basis and communicate the same to the DFOs to facilitate the beneficiaries to select the suppliers and material as per their choice.

- With regard to the supply of solar lights and solar pumpsets, solar Aerators the procedure adopted by the NEDCAP shall be followed in finalizing the rates , suppliers etc.,

- The DFO has to get the declarations from the beneficiaries and issue sanction orders to the beneficiaries. The DFO has to arrange for drawl of subsidy portion from District Treasury for payment
- The DFO should maintain the book of records along with photographs/ videos of the material installed for producing for verification by the higher authorities
- The installed assets should be geo-tagged for monitoring.
- DFO has to maintain separate accounts for different schemes for audit purpose.
- The beneficiaries should produce/ display the assets procured under the scheme on demand by the Department Officers or any authorized person.
- The DFO should submit monthly progress report. He should also submit U.C within one month of grounding the scheme.

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